

## Recombinant Human Latent TGF Beta-1 (N-6His)

Catalog#:P02279 Derived from Human Cells

<b>DESCRIPTION</b>	<p>Recombinant Human Transforming Growth Factor Beta 1 is produced by our Mammalian expression system and the target gene encoding Leu30-Ser390(Cys33Ser) is expressed with a 6His tag at the N-terminus.</p> <p>Accession#: P01137</p> <p>Known as : Transforming Growth Factor Beta-1; TGF-Beta-1; Latency-Associated Peptide; LAP; TGFB1; TGFB</p>
<b>FORMULATION</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>SHIPPING</b>	<p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
<b>STORAGE</b>	<p>Lyophilized protein should be stored at &lt; -20 °C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7 °C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at &lt; -20 °C for 3 months.</p>
<b>QUALITY CONTROL</b>	<p>Mol Mass: 42.1&amp;12.8 kDa AP Mol Mass: 38-55&amp;13 kDa, reducing conditions.</p> <p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin:Less than 0.1 ng/µg (1 EU/µg) as determined by LAL test.</p>
<b>BACKGROUND</b>	<p>Transforming Growth Factor β-1 (TGFβ-1) is a secreted protein which belongs to the TGF-β family. TGFβ-1 is abundantly expressed in bone, articular cartilage and chondrocytes and is increased in osteoarthritis (OA). TGFβ-1 performs many cellular functions, including the control of cell growth, cell proliferation, cell differentiation and apoptosis. The precursor is cleaved into a latency-associated peptide (LAP) and a mature TGFβ-1 peptide. TGFβ-1 may also form heterodimers with other TGFβ family members. It has been found that TGF β -1 is frequently upregulated in tumor cells. Mutations in this gene results in Camurati- Engelmann disease.</p>
<p>SDS-PAGE</p> 	